

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/510,677
Source: IFWP
Date Processed by STIC: 12/12/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 12/12/2006

PATENT APPLICATION: US/10/510,677

TIME: 14:39:30

Input Set : F:\API-01-20-US-SeqList.ST25.txt

Output Set: N:\CRF4\12122006\J510677.raw

3 <110> APPLICANT: Sanofi Pasteur, Ltd.
 4 Therion Biologics, Inc.
 6 <120> TITLE OF INVENTION: Modified CEA Nucleic Acid and Expression Vectors
 8 <130> FILE REFERENCE: API-01-20-US
 10 <140> CURRENT APPLICATION NUMBER: 10/510,677
 C--> 11 <141> CURRENT FILING DATE: 2004-10-06
 13 <150> PRIOR APPLICATION NUMBER: US 60/370,972
 14 <151> PRIOR FILING DATE: 2002-04-09
 16 <160> NUMBER OF SEQ ID NOS: 32
 18 <170> SOFTWARE: PatentIn version 3.3
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 3564
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 26 <220> FEATURE:
 27 <221> NAME/KEY: misc_feature
 28 <222> LOCATION: (1663)..(1663) /
 29 <223> OTHER INFORMATION: n is a, c, g, or t
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 36 ctgcgcggga tcctcaactga cgtcacgctg ctggttggcg ggcaacctct cagagcacac 180
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 40 gtccgggtgg acgtgctctc tctgcccggg ggtcccgaag cgagaggctt cgcctctcta 300
 42 ttggacttca tgtacacttc gcgcctgcgc ctctctccag ccactgcacc agcagtccta 360
 44 gcggccgcca cctatttgca gatggagcac gtggtccagg catgccaccg cttcatccag 420
 46 gccagctatg aacctctggg catctccctg cgccccctgg aagcagaacc cccaacaccc 480
 48 ccaacggccc ctccaccagg tagtcccagg cgctccgaag gacacccaga cccacctact 540
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 52 aactggaaaa agtacaagta catcgtgcta aactctcagg cctcccaagc agggagcctg 660
 54 gtccggggaga gaagtctctg tcaaccttgc cccaagcca ggctccccag tggagacgag 720
 56 gcctccagca gcagcagcag cagcagcagc agcagcagtg aagaaggacc cattcctggt 780
 58 cccagagca ggctctctcc aactgctgcc actgtgcagt tcaaagtggg ggctccagcc 840
 60 agtacctcct acctcctcac atcccaggct caagacacct ctggatcacc ctctgaacgg 900
 62 gctcgtccac tacggggagt gaatttttca gctgccagaa ctgtgagggt gtggcagggt 960
 64 gctcatcggg ggctggactc cttggttcct ggggacgaag acaaacctta taagtgtcag 1020
 66 ctgtgccggt cttcgttccg ctacaagggc aaccttgcca gtcaccgtac agtgcacaca 1080
 68 ggggaaaagc cttaccactg ctcaatctgc ggagcccgtt ttaaccggcc agcaaacctg 1140
 70 aaaacgcaca gccgcattca ttccggagag aagccgtata agtgtgagac gtgcggctcg 1200
 72 cgctttgtac aggtggcaca tctgcgggcg cacgtgctga tccacaccgg ggagaagccc 1260
 74 tacccttgcc ctacctgcgg aaccgccttc cgccacctgc agacctcaa gagccacgtt 1320
 76 cgcattccaca ccggagagaa gccttaccac tgcgacctct gtggcctgca tttccggcac 1380
 78 aagagtcaac tgcggctgca tctgcgccag aaacacggag ctgctacca caccaaagtg 1440

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80 cactaccaca ttctcggggg gccctagctg agcgaggcc caggcccccac ttgcttctctg 1500
 82 cgggtgggaa agctgcaggc ccaggccttg cttccctatc aggcttgggc ataggggtgt 1560
 84 gccaggccac tttggtatca gaaattgcc aacctttaat ttctcactgg ggagagcagg 1620
 W--> 86 ggtggcagat cctggctaga tctgcctctg ttttgcctgg canaccctct tccccacaag 1680
 88 ccagattgtt tctgaggaga gagctagcta ggggctggga aaggggagag attggagtcc 1740
 90 tggctctcct aagggaatag cctccacct gtggccccc ttgcattcag tttatctgta 1800
 92 aaatataatt tattgaggcc tttgggtggc accggggcct tcattcgatt gcatttccca 1860
 94 ctccctctct ccacaagtgt gattaaaagt gaccagaaac acagaagggtg agatcacagc 1920
 96 tctgctggca gagattacta gcccttggct ctctcgtttg gcttgggtat tttatattat 1980
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 100 gtttaaaatg gaaaaagggg ttctctgtgt tctgcccctg taattctagg tctggaacct 2100
 102 ttatttgttc tagggcagct ctgggaacat gcgggattgt ggaattgggt caggaacctt 2160
 104 ctctggtatt ctggatgttg taggttctct agcagtctag aaatggatac agacatttct 2220
 106 ctgttcttca aggggtgatag gaaccattat gttgagccca aaatggaagt aataataaat 2280
 108 gcctcctgga ggctgtgggt gtgggggatt ctgtatctgg attccgtatc actccaactg 2340
 110 gaggctgtgg gtgtggggga ttctgtatct ggattccgta tcaactccaag tggaggctgg 2400
 112 caggtttttc tgcaagatgg tccagaatct aaaatgtccc attaatctgg tcaactgggt 2460
 114 ttggctctgc tgtatccatc tatagtggta gagaccacc agggctcaag tggagtccat 2520
 116 catcctccca cgggggcctg ttcttagtac tgagttgatc gctccatggg ggagagatca 2580
 118 gacattcctt atcagagatg atgtgacctt ttctgactct gccagctctc tatgaatgtt 2640
 120 atggcctagg gaagaatcat gaaactctt agcttgatta gatggtaaac agtgtaaac 2700
 122 catcctttac tacagaggca tatgggtttg aatgttaact ggggttctct ctattgagtt 2760
 124 gagecccttc ttcttttagt gggttttgga catcttctgg caagtgtcca gatgccagaa 2820
 126 ccttcttttc ctctagaagg gatggtgctt ggtaacctta ctttttaaaa gctgggtctg 2880
 128 tgacctggtc ttcccatccc tgcattcctg tctggaacca gtgaatgcat tagaaccttc 2940
 130 cataggaaaa gaaaaggggc tgagttccat tctgggtttg ctgtagtttg gttgggatta 3000
 132 ttgttggcat tacagatgta aaagattgac tagcccatag gccaaaggcc tgttctagtt 3060
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 136 ggtaggtaga aagtgaggaa cagggttgcc tcttggtgg gtggagtctc tgaaatgtta 3180
 138 gaagaagcgc tgaagccttg attgatagtt ctgccccttg ttgcccctgg gcttatctga 3240
 140 ttatgggacg agggtagaaa gtaagaagca cttttgaatt tgtggggtag aacttcaaca 3300
 142 ataagtcagt tctagtggct gtgcctggg gactagttag aaagctactc ttctcctct 3360
 144 tccctctttc tccccatggc cccactgcag aattaaagaa ggaagaaggg aaggcggagg 3420
 146 agtctataag aaggaatcat gatttctatt tagcagattg gatgggcagg tggagaatgc 3480
 148 ctgggggtag aaatgttaga tcttgcaaca tcagatcctt ggaataaaga agcctctctg 3540
 150 cgcaaaaaaa aaaaaaaaaa aaaa 3564
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 154 <211> LENGTH: 1440
 155 <212> TYPE: DNA
 156 <213> ORGANISM: Homo sapiens
 158 <400> SEQUENCE: 2
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 161 tcctccgacg tgctgggcaa cctcaacgag ctgcgcctgc gcgggatact cactgacgtc 120
 163 acgtgctgg ttggcgggca acccctcaga gcacacaagg cagttctcat cgctgcagt 180
 165 ggcttcttct attcaatttt ccggggcctg gcgggagtcg ggggtggact gctctctctg 240
 167 cccgggggtc ccgaagcgag aggtctcgcc cctctatttg acttcatgta cacttcgcgc 300
 169 ctgcgcctct ctccagccac tgcaccagca gtccatagcg ccgccacctt tttgcagatg 360
 171 gagcacgtgg tccaggcatg ccaccgcttc atccaggcca gctatgaacc tctgggcata 420
 173 tccctgcgcc ccttgggaagc agaaccccca acaccccca cggccctctc accaggtagt 480

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175 cccaggcgct ccgaaggaca cccagaccca cctactgaat ctggaagctg cagtcaaggc 540
177 ccccccagtc cagccagccc tgaccccaag gcctgcaact ggaaaaagta caagtacatc 600
179 gtgctaaact ctgaggcctc ccaagcaggg agcctggctg gggagagaag ttctgggtcaa 660
181 ccttgccccc aagccagggt cccagtgga gacgaggcct ccagcagcag cagcagcagc 720
183 agcagcagca gtgaagaagg acccattcct ggtccccaga gcaggctctc tccaactgct 780
185 gccactgtgc agttcaaagt tggggctcca gccagtacc cctacctcct cacatccag 840
187 gctcaagaca cctctggatc accctctgaa cgggctcgtc cactaccggg aagtgaattt 900
189 ttcagctgcc agaactgtga ggctgtggca ggggtgctcat cggggctgga ctcttggtt 960
191 cctggggagc aagacaaacc ctataagtgt cagctgtgcc ggtcttcgtt ccgctacaag 1020
193 ggcaaccttg ccagtcctcg tacagtgcac acaggggaaa agccttacca ctgctcaatc 1080
195 tgcggagccc gttttaaccg gccagcaaac ctgaaaacgc acagccgcat ccattcggga 1140
197 gagaagccgt ataagtgtga gacgtgcggc tcgcgctttg tacagggtggc acatctgcgg 1200
199 gcgcacgtgc tgatccacac cggggagaag ccctaccctt gccctacctg cggaaccgcg 1260
201 ttccgccacc tgcagaccct caagagccac gttcgcatcc acaccggaga gaagccttac 1320
203 cactgcgacc cctgtggcct gcatttcggg cacaagagtc aactgcggct gcctctgcgc 1380
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210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 3
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216 agatg 65
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220 <211> LENGTH: 70
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222 <213> ORGANISM: Homo sapiens
224 <400> SEQUENCE: 4
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232 <212> TYPE: DNA
233 <213> ORGANISM: Homo sapiens
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241 <210> SEQ ID NO: 6
242 <211> LENGTH: 70
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249 agggactgg 70
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253 <211> LENGTH: 70
254 <212> TYPE: DNA
255 <213> ORGANISM: Homo sapiens
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260 tgagaatcac                                     70
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264 <211> LENGTH: 63
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo sapiens
268 <400> SEQUENCE: 8
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271 gtg                                           63
274 <210> SEQ ID NO: 9
275 <211> LENGTH: 70
276 <212> TYPE: DNA
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 9
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282 gtgattctca                                     70
285 <210> SEQ ID NO: 10
286 <211> LENGTH: 70
287 <212> TYPE: DNA
288 <213> ORGANISM: Homo sapiens
290 <400> SEQUENCE: 10
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293 gttctctggtc                                     70
296 <210> SEQ ID NO: 11
297 <211> LENGTH: 79
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299 <213> ORGANISM: Homo sapiens
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307 <210> SEQ ID NO: 12
308 <211> LENGTH: 70
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315 cggtaatcgt                                           70
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321 <213> ORGANISM: Homo sapiens
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RAW SEQUENCE LISTING

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Input Set : F:\API-01-20-US-SeqList.ST25.txt

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343 <213> ORGANISM: Homo sapiens
345 <400> SEQUENCE: 15
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348 gaacttgagc ctttcttgcc                                     80
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352 <211> LENGTH: 80
353 <212> TYPE: DNA
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356 <400> SEQUENCE: 16
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363 <211> LENGTH: 80
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365 <213> ORGANISM: Homo sapiens
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374 <211> LENGTH: 80
375 <212> TYPE: DNA
376 <213> ORGANISM: Homo sapiens
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385 <211> LENGTH: 80
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387 <213> ORGANISM: Homo sapiens
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396 <211> LENGTH: 80
397 <212> TYPE: DNA
398 <213> ORGANISM: Homo sapiens
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408 <212> TYPE: DNA
409 <213> ORGANISM: Homo sapiens
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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 12/12/2006

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Input Set : F:\API-01-20-US-SeqList.ST25.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1663

VERIFICATION SUMMARY

DATE: 12/12/2006

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Input Set : F:\API-01-20-US-SeqList.ST25.txt

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1620